

Product data sheet

ALUMINIUM COATED BASALT FIBRE

Physical properties	Unit	Value						
Density	g/cm ³	2.7						
Monofilament diameter	µm	18 - 27						
Yarn count	Tex (DIN EN 12654)	50, 100, 300, 600, 1200, 2400						
Filaments/tex	-	1						
Fibre volume ratio	Vol. - %	50						
Mechanical properties								
Tensile modulus	GPa (DIN EN ISO 2062)	tbd						
Tensile strength	MPa (DIN EN ISO 2062)	280 (preliminary value, measured at 300 tex yarn)						
Tensile elongation at break	% (DIN EN ISO 2062)	tbd						
Thermal properties								
Melting temperature	°C	660						
Working temperature under load	°C	< 400						
Other properties								
Sizing	-	Silane						
Electrical resistance	Ω/m (ASTM B 193-20)	tex	50	100	300	600	1200	2400
		Ω/m	< 12	< 8	< 6	< 3	< 1	< 1

The values in the data sheet apply only to this specific yarn. The data listed here is within the normal range of product properties but should not be used to establish specification limits nor used alone as a basis for design. The underlying tests were conducted at standard environment of 20 °C and 60 % humidity.

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Caution: Do not use this product for medical applications that require permanent implantation in the human body.

